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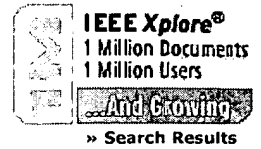
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-	259	harness and (connector adj fitting\$3)	USPAT; US-PGPUB	2004/10/12 13:28
-	40510	unfold\$3	USPAT; US-PGPUB	2004/10/12 13:28
-	852	unfold\$3 and harness	USPAT; US-PGPUB	2004/10/12 13:28
-	265	(unfold\$3 and harness) and connector	USPAT; US-PGPUB	2004/10/12 13:28
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-	791	harness and ((three adj dimension\$3) and (two adj dimension\$3))	USPAT; US-PGPUB	2004/10/12 13:28
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-	38	("1760538"   "3258039"   "3633096"   "3836415"   "3842496"   "3859724"   "3861015"   "3913202"   "3930307"   "3946768"   "4030029"   "4114014"   "4202722"   "4486058"   "4639819"   "4711025"   "4724612"   "4835858"   "4965929"   "5064384"   "5153839"   "5205329"   "5535511"   "5535788"   "5543581"   "5610447"   "5610454"   "5614042"   "5680330"   "5807450"   "5829129"   "5888324"   "5894660"   "5911450"   "5940962"   "5987743"   "6101695"   "6169934").PN.	USPAT; US-PGPUB	2004/10/12 13:29
-	5	5138698.URPN.	USPAT	2004/10/12 13:29
-	9	("3636328"   "3867616"   "4549275"   "4551810"   "4586145"   "4744047"   "4757461"   "4796201"   "4855939").PN.	USPAT	2004/10/12 13:29
-	53	29/872.ccor.	USPAT; US-PGPUB	2004/10/12 13:29
-	34	((unfold\$3 and harness) and connector) and (two adj dimension\$3)	USPAT; US-PGPUB	2004/10/12 13:29
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-	5	("3946768"   "4912644"   "5083369"   "5109479"   "5127062").PN.	USPAT	2004/10/12 13:29
-	1	("5689435").PN.	USPAT; US-PGPUB	2004/10/12 13:29
-	922	345/419.ccor.	USPAT; US-PGPUB	2004/10/12 13:29
-	344	345/420.ccor.	USPAT; US-PGPUB	2004/10/12 13:29
-	162	700/97.ccor.	USPAT	2004/10/12 13:29

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Parts, Materials and Packaging, IEEE Transactions on , Volume: 3 , Issue: 4 , Dec 1967

Pages:170 - 183

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*Rawal, S.P.; Barnett, D.M.; Martin, D.E.;*

Advanced Packaging, IEEE Transactions on [see also Components, Packaging and Manufacturing Technology, Part B: Advanced Packaging, IEEE Transactions on], Volume: 22, Issue: 3, Aug. 1999  
Pages:379 - 383

[\[Abstract\]](#)   [\[PDF Full-Text \(964 KB\)\]](#)   IEEE JNL

## 2 The roles of FPGAs in reprogrammable systems

*Hauck, S.;*

Proceedings of the IEEE, Volume: 86, Issue: 4, April 1998  
Pages:615 - 638

[\[Abstract\]](#)   [\[PDF Full-Text \(628 KB\)\]](#)   IEEE JNL

## 3 The Gas-Tightness of Separable Base Metal Electric Contacts

*Tripp, J.; Garte, S.;*

Components, Hybrids, and Manufacturing Technology, IEEE Transactions on [see also IEEE Trans. on Components, Packaging, and Manufacturing Technology, Part A, B, C], Volume: 4, Issue: 1, Mar 1981

Pages:85 - 92

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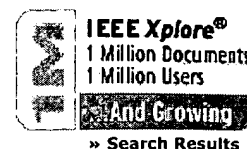
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**1 Bayesian surrogates for integrating numerical, analytical, and experimental data: application to inverse heat transfer in wearable computers**
*Leoni, N.; Amon, C.H.;*

 Components and Packaging Technologies, IEEE Transactions on [see also Components, Packaging and Manufacturing Technology, Part A: Packaging Technologies, IEEE Transactions on], Volume: 23, Issue: 1, March 2000  
 Pages:23 - 32

[\[Abstract\]](#)   [\[PDF Full-Text \(408 KB\)\]](#)   IEEE JNL

**2 Emerging simulation approaches for micromachined devices**
*Mukherjee, T.; Fedder, G.K.; Ramaswamy, D.; White, J.;*

 Computer-Aided Design of Integrated Circuits and Systems, IEEE Transactions on, Volume: 19, Issue: 12, Dec. 2000  
 Pages:1572 - 1589

[\[Abstract\]](#)   [\[PDF Full-Text \(332 KB\)\]](#)   IEEE JNL

**3 An industrial view of electronic design automation**
*MacMillen, D.; Camposano, R.; Hill, D.; Williams, T.W.;*

 Computer-Aided Design of Integrated Circuits and Systems, IEEE Transactions on, Volume: 19, Issue: 12, Dec. 2000  
 Pages:1428 - 1448

[\[Abstract\]](#)   [\[PDF Full-Text \(180 KB\)\]](#)   IEEE JNL

**4 Harnessing natural textures for multivariate visualization**
*Interrante, V.;*

 Computer Graphics and Applications, IEEE, Volume: 20, Issue: 6, Nov.-Dec. 2000  
 Pages:6 - 11

[\[Abstract\]](#)   [\[PDF Full-Text \(2448 KB\)\]](#)   IEEE JNL

**5 Biomolecular computing and programming**
*Garzon, M.H.; Deaton, R.J.;*

 Evolutionary Computation, IEEE Transactions on, Volume: 3, Issue: 3, Sept. 1999  
 Pages:236 - 250

[\[Abstract\]](#) [\[PDF Full-Text \(168 KB\)\]](#) [IEEE JNL](#)

#### 6 Promises and challenges of evolvable hardware

*Yao, X.; Higuchi, T.;*

Systems, Man and Cybernetics, Part C, IEEE Transactions on , Volume: 29 , Issue: 1 , Feb. 1999

Pages:87 - 97

[\[Abstract\]](#) [\[PDF Full-Text \(140 KB\)\]](#) [IEEE JNL](#)

#### 7 Codes for digital recorders

*Schouhamer Immink, K.E.; Siegel, P.H.; Wolf, J.K.;*

Information Theory, IEEE Transactions on , Volume: 44 , Issue: 6 , Oct. 1998

Pages:2260 - 2299

[\[Abstract\]](#) [\[PDF Full-Text \(1144 KB\)\]](#) [IEEE JNL](#)

#### 8 Statistical response of EM-driven cables inside an overmoded enclosure

*Holland, R.; St. John, R.H.;*

Electromagnetic Compatibility, IEEE Transactions on , Volume: 40 , Issue: 4 , Nov. 1998

Pages:311 - 324

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#### 9 Humanistic computing: "WearComp" as a new framework and application for intelligent signal processing

*Mann, S.;*

Proceedings of the IEEE , Volume: 86 , Issue: 11 , Nov. 1998

Pages:2123 - 2151

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#### 10 Local dynamic modeling with self-organizing maps and applications to nonlinear system identification and control

*Principe, J.C.; Ludong Wang; Motter, M.A.;*

Proceedings of the IEEE , Volume: 86 , Issue: 11 , Nov. 1998

Pages:2240 - 2258

[\[Abstract\]](#) [\[PDF Full-Text \(508 KB\)\]](#) [IEEE JNL](#)

#### 11 A device architecture for computing with quantum dots

*Lent, C.S.; Tougaw, P.D.;*

Proceedings of the IEEE , Volume: 85 , Issue: 4 , April 1997

Pages:541 - 557

[\[Abstract\]](#) [\[PDF Full-Text \(752 KB\)\]](#) [IEEE JNL](#)

#### 12 The Gas-Tightness of Separable Base Metal Electric Contacts

*Tripp, J.; Garte, S.;*

Components, Hybrids, and Manufacturing Technology, IEEE Transactions on [see also IEEE Trans. on Components, Packaging, and Manufacturing Technology, Part A, B, C] , Volume: 4 , Issue: 1 , Mar 1981

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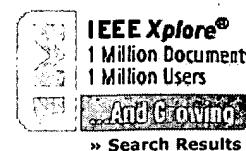
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1 **Catching the wave**

Yariv, A.;

Selected Topics in Quantum Electronics, IEEE Journal of , Volume: 6 , Issue: 6 , Nov.-Dec. 2000  
Pages:1478 - 1489
[\[Abstract\]](#) [\[PDF Full-Text \(388 KB\)\]](#) IEEE JNL
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Forbes, M.W.; Rothschild, M.L.;

System Sciences, 2000. Proceedings of the 33rd Annual Hawaii International Conference on , 4-7 Jan. 2000

Pages:10 pp. vol.2

[\[Abstract\]](#) [\[PDF Full-Text \(100 KB\)\]](#) IEEE CNF
3 **A unified treatment of radiation-induced photorefractive, thermal, and neutron transmutation gratings**

Kukhtarev, N.; Kukhtareva, T.; Banerjee, P.P.;

Proceedings of the IEEE , Volume: 87 , Issue: 11 , Nov. 1999  
Pages:1857 - 1869
[\[Abstract\]](#) [\[PDF Full-Text \(276 KB\)\]](#) IEEE JNL
4 **Advanced graphics behind medical virtual reality: evolution of algorithms, hardware, and software interfaces**

Soferman, Z.; Blythe, D.; John, N.W.;

Proceedings of the IEEE , Volume: 86 , Issue: 3 , March 1998  
Pages:531 - 554
[\[Abstract\]](#) [\[PDF Full-Text \(340 KB\)\]](#) IEEE JNL
5 **Author Index**Industry Applications, IEEE Transactions on , Volume: 34 , Issue: 6 , Nov.-Dec. 1998  
Pages:1 - 42

[\[Abstract\]](#) [\[PDF Full-Text \(676 KB\)\]](#) IEEE JNL

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**6 Local dynamic modeling with self-organizing maps and applications to nonlinear system identification and control**

*Principe, J.C.; Ludong Wang; Motter, M.A.;*

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**7 Humanistic computing: "WearComp" as a new framework and application for intelligent signal processing**

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Proceedings of the IEEE , Volume: 86 , Issue: 11 , Nov. 1998

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**8 Statistical response of EM-driven cables inside an overmoded enclosure**

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**9 ViVa: the virtual vascular project**

*Abdouliev, G.; Cadeddu, S.; Delussu, G.; Donizelli, M.; Formaggia, L.; Giachetti, A.; Gobbetti, E.;*

*Leone, A.; Manzi, C.; Pili, P.; Scheinine, A.; Tuveri, M.; Varone, A.; Veneziani, A.; Zanetti, G.; Zorcolo, A.;*

Information Technology in Biomedicine, IEEE Transactions on , Volume: 2 , Issue: 4 , Dec. 1998

Pages:268 - 274

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**10 Automated synthesis of analog electrical circuits by means of genetic programming**

*Koza, J.R.; Bennett, F.H., III; Andre, D.; Keane, M.A.; Dunlap, F.;*

Evolutionary Computation, IEEE Transactions on , Volume: 1 , Issue: 2 , July 1997

Pages:109 - 128

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**11 Running on four legs as though they were one**

*Raibert, M.; Chepponis, M.; Brown, H., Jr.;*

Robotics and Automation, IEEE Journal of [legacy, pre - 1988] , Volume: 2 , Issue: 2 , Jun 1986

Pages:70 - 82

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Antennas and Propagation Society Newsletter, IEEE , Volume: 28 , Issue: 3 , Jun 1986

Pages:1 - 36

[\[Abstract\]](#) [\[PDF Full-Text \(3064 KB\)\]](#) IEEE JNL

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Antennas and Propagation Society Newsletter, IEEE , Volume: 27 , Issue: 4 , Aug 1985

Pages:1 - 46

[\[Abstract\]](#) [\[PDF Full-Text \(4616 KB\)\]](#) IEEE JNL

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**14 Substrate-lens coupled antennas for millimeter and submillimeter waves**

*Rutledge, D.;*

Antennas and Propagation Society Newsletter, IEEE , Volume: 27 , Issue: 4 , Aug 1985

Pages:4 - 8

[\[Abstract\]](#) [\[PDF Full-Text \(552 KB\)\]](#) [IEEE JNL](#)

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**15 The Gas-Tightness of Separable Base Metal Electric Contacts**

*Tripp, J.; Garte, S.;*

Components, Hybrids, and Manufacturing Technology, IEEE Transactions on [see also IEEE Trans. on Components, Packaging, and Manufacturing Technology, Part A, B, C] , Volume: 4 , Issue: 1 , Mar 1981

Pages:85 - 92

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**16 Packaging Design Considerations Using Conventional Components**

*Grassi, D.;*

Product Engineering and Production, IEEE Transactions on , Volume: 7 , Issue: 1 , Jan 1963

Pages:24 - 27

[\[Abstract\]](#) [\[PDF Full-Text \(520 KB\)\]](#) [IEEE JNL](#)

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**17 Mutual-coupling effects in scanning dipole arrays**

*Kurtz, L.; Elliott, R.; Wehn, S.; Flock, W.;*

Antennas and Propagation, IEEE Transactions on [legacy, pre - 1988] , Volume: 9 , Issue: 5 , Sep 1961

Pages:433 - 443

[\[Abstract\]](#) [\[PDF Full-Text \(792 KB\)\]](#) [IEEE JNL](#)

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aspect shared by all of these systems is that they **harness** multiple FPGAs, connected in a fixed routing pins, and they use geometric properties of the **two dimensional** routing area to minimize the inter-cell or to view the FPGAs as complex entities, explicitly **modelling** both internal routing resources and pins

[www.cs.washington.edu/research/lis/papers/postscript/hauck-DACpins.ps](http://www.cs.washington.edu/research/lis/papers/postscript/hauck-DACpins.ps)

[Active Voodoo Dolls: A Vision Based Input Device for.. - Isidoro, Sclaroff \(1998\)](#) (Correct) (2 citations)

image warping in this way, it is possible to **harness** hardware accelerated triangle texture mapping pattern. For tracking purposes, we build a **two-dimensional** deformable texture mapped **model** of a region transformations can be applied to a graphics **model**, thereby allowing the user to control motion

[www.cs.bu.edu/techreports/98-006-active-voodoo-dolls.ps.Z](http://www.cs.bu.edu/techreports/98-006-active-voodoo-dolls.ps.Z)

[ViVa: The Virtual Vascular Project - Abdoulaev, Cadeddu, Delussu..](#) (Correct)

of fast computers will make it possible to **harness** this information to provide surgeons with hand, holding a mouse, is used to operate **two-dimensional** widgets and to measure morphological vascular operations on an accurate virtual **model** of the vessel tree will allow surgeons to

[www.crs4.it/~gobbetti/group\\_homepage/bib/papers/ieee-titb98.ps.gz](http://www.crs4.it/~gobbetti/group_homepage/bib/papers/ieee-titb98.ps.gz)

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[An Agent-Based Approach to Concurrent Cable Harness Design - Hisup Park Lockheed \(1994\) \(Correct\) \(16 citations\)](#)

1 An Agent-Based Approach to Concurrent Cable **Harness** Design Hisup Park Lockheed Missiles and Space is discussed in the context of an industrial cable **harness** design problem. Key issues include the Insulation Jacket Ferrule Nut Cap Copper Braid **Connector** Wire Transition/assembly **Connector**/assembly cdr.stanford.edu/pub/CDR/Publications/Reports/aiedam.ps

[Connectors in Configuration Programming Languages: Are They.. - Bishop, Faria \(1996\) \(Correct\) \(11 citations\)](#)

message passing pointto -point via an occam **harness** synchronous message passing on a software -1 -**Connectors** in configuration programming languages: are in the process the properties and roles of **connectors**. By means of experiments we show how **connectors** www.cs.up.ac.za/Polelo/docs/bishop/connectors.ps.Z

[Using Pareto Optimality to Coordinate Distributed Agents - Petrie, Webster, Cutkosky \(1995\) \(Correct\) \(5 citations\)](#)

with examples from the domain of electrical cable **harness** design. Keywords:Design Coordination]Pareto scenario from our current domain: electrical cable **harness** design. It is important to carefully consider with bending and clamping constraints selecting **connectors**, shielding, and other parts and optimizing for www-cdr.stanford.edu/pub/CDR/Publications/Reports/pareto.ps.gz

[Enforcing Architecture Constraints - Robert Balzer Information \(1996\) \(Correct\) \(2 citations\)](#)

a system's architecture behavior, creates a test **harness** for exercising some portion of that system, and all communications passing through those **connectors**. Since these connections and the communications We have argued for some time that Instrumented **Connectors** were key to moving software architectures www.cs.wpi.edu/~cs562/s98/pdf/enforcing-architecture-constraints.pdf

[Electromagnetic Interference Assessment Of Cdma And Gsm.. - Jay Ely And \(2002\) \(Correct\)](#)

keypad codes, base station simulators, and a test **harness** interface. The authors are also appreciative of decrease in simulator transmit power. The test **harness** interface could control all three parameters, CDMA wireless handsets. The threat power at the **connector** of a particular aircraft radio receiver (P techreports.larc.nasa.gov/ltrs/PDF/2002/mtg/NASA-2002-21dasc-jje.pdf

[Electromagnetic Interference Assessment Of Cdmaand Gsm Wireless .. - Jay Ely And \(2002\) \(Correct\)](#)

keypad codes, base station simulators, and a test **harness** interface. The authors are also appreciative of decrease in simulator transmit power. The test **harness** interface could control all three parameters, CDMA wireless handsets. The threat power at the **connector** of a particular aircraft radio receiver (P techreports.larc.nasa.gov/pub/techreports/larc/2002/mtg/NASA-2002-21dasc-jje.ps.Z

[MAP110-1012 Power Supply MAP110-1012 Power Supply - Title Dfm Description \(Correct\)](#)

Dc Prototype Coil Driver Electronics Power **Harness** Drawn By Leandra Vicci Date Sheet Scale Dwg 15 [V]Each supply rated at 15[V]8[A]AC power **harness** mating with J1 uses Molex 09-50-3051-P shell LM 675T LM 675T RH-10 RH-10 RH-10 RH-10 Power **Connector** Power Switch DB15 DB-9 TITLE 3DFM ftp.cs.unc.edu/pub/publications/techreports/01-031.pdf

[A 20 Ampere Shunt Regulator For Controlling Individual.. - Martin Dobeck Jones \(1995\) \(Correct\)](#)

The three boards are interconnected by a wiring **harness** and plug-in **connectors**. This facilitates by use of insulated supports and a special **connector** mounted on G10 laminate. Isolation for remote Connections to a module are via a multipin **connector** which is isolated from the adjacent module and www.aps.anl.gov/conferences/mirrored/www.cern.ch/accelconf/p95/ARTICLES/RPP/RPP06.PDF

[SubjuGator: A Highly Maneuverable, Autonomous.. - Laine, Nichols.. \(2000\) \(Correct\)](#)

providers of valuable resources. In order to fully **harness** those resources, however, we must develop through the container pass through Burton **connectors** positioned on the side of the box. Bulkhead seal, and where appropriate, the holes for the **connectors** are tapped so that the **connectors** can be

[www.me.ufl.edu/~dkn/papers/icra2000\\_sub.pdf](http://www.me.ufl.edu/~dkn/papers/icra2000_sub.pdf)

Computational Support for Concurrent Engineering of Cable.. - Park, Lee, Cutkosky (1992) (Correct)  
Support for Concurrent Engineering of Cable **Harnesses** Hisup Park Center for Design Research,  
(e.g.connectivity, geometry) of the **harnesses**. The abstraction of design information results  
Insulation Jacket Ferrule Nut Cap Copper Braid **Connector** Wire Transition Assembly **Connector** &Bundle  
[cdr.stanford.edu/pub/CDR/Publications/Reports/FirstLink.ps](http://cdr.stanford.edu/pub/CDR/Publications/Reports/FirstLink.ps)

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### 1 [Three levels of the wiring interconnection problem](#)

D. K. Frayne

January 1965

**Proceedings of the SHARE design automation project**

Full text available: pdf(409.79 KB)

Additional information: [full citation](#), [abstract](#), [index terms](#)

This paper describes a set of computer programs written to aid in the design, documentation, manufacture, and test of electronic hardware. The programs discussed are limited to the areas involved with the problem of wiring interconnection. While it can be said that there are over 10 different levels or types of wiring interconnection, these programs primarily concern the most common three: 1. Interconnection of circuit cards or other modules on a chassis 2. Interconnec ...

### 2 [Design automation and the WRAP System](#)

J. A. Brown, L. J. Cesa, J. J. Sawicki

July 1968

**Proceedings of the 5th annual workshop on Design automation**

Full text available: pdf(1.23 MB)

Additional information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The WRAP (Wire Routing and Packaging) System is a 7094 programming system for the automatic packaging and wiring of Aerospace computers. WRAP, originally written to assist in the packaging of IBM's System/4 Pi family of computers, has been applied to a wide range of package configurations. Use of the WRAP System has greatly reduced the time required to design and manufacture a machine. The system operates from a logic design recording system (SLDA), performs automatic packaging a ...

### 3 [Manufacturing engineering and information](#)

C. C. Zell

January 1967

**Proceedings of the 4th conference on Design automation**

Full text available: pdf(12.04 MB)

Additional information: [full citation](#), [abstract](#), [index terms](#)

This paper describes an operating computer-aided system (COMET), which processes Automated Wire List data into many forms required in manufacturing, assembly, installation and automated check out of electrical and electronic systems. The presentation presumes an operating Automated Wire List system and specifies some of the value benefits achieved at North American Aviation, Inc. The COMET description is presented from the viewpoint of Manufacturing Engineering as an interface communication ...

### 4 [Information, technical writing, knowledge and power: a case study of NASA's Cassini project](#)

Mattio Valentino

February 1999

**ACM SIGDOC Asterisk Journal of Computer Documentation**, Volume 23 Issue 1

Full text available: pdf(1.39 MB)

Additional information: [full citation](#), [abstract](#), [index terms](#)

The study of technology should not limit its scope to hardware, software, applications and systems; it should also involve language, how language shapes and is shaped by information, how information becomes knowledge, and how dominant knowledge can become power, all within the complex contexts of human culture. Technology transfer, the transfer of the knowledge of technology, is mediated by language, which, paradoxically, is itself a technology. What happens, then, when one community attempts to ...

### 5 [A computer aided interconnection system](#)

Richard W. Wilson

January 1969

**Proceedings of the 6th annual conference on Design Automation**

Full text available: pdf(380.33 KB)

Additional information: [full citation](#), [abstract](#), [index terms](#)

When electronic equipment is designed there are two ways of defining the equipment: 1) by parts content and 2) by electrical interconnections. The concern here is with electrical interconnections; how they are defined; how they flow



through the phases of design; and how a computer-aided system has helped to create an efficient design tool out of a cumbersome manual data flow. By comparing the manual system (Fig 1) with the computer-aided system (F ...

#### 6 Enforcing architecture constraints

Robert Balzer

October 1996

**Joint proceedings of the second international software architecture workshop (ISAW-2) and international workshop on multiple perspectives in software development (Viewpoints '96) on SIGSOFT '96 workshops**

Full text available:  pdf(391.01 KB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

#### 7 The design and performance of a pluggable protocols framework for real-time distributed object computing middleware

Carlos O'Ryan, Fred Kuhns, Douglas C. Schmidt, Ossama Othman, Jeff Parsons

April 2000

**IFIP/ACM International Conference on Distributed systems platforms**

Full text available:  pdf(231.54 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

*To be an effective platform for performance-sensitive real-time and embedded applications, off-the-shelf CORBA middleware must preserve the communication-layer quality of service (QoS) properties of applications end-to-end. However, the standard CORBA GIOP/HOP interoperability protocols are not well suited for applications that cannot tolerate the message footprint size, latency, and jitter associated with general-purpose messaging and transport protocols. It is essential, therefore, to de ...*

#### 8 Reuse of off-the-shelf components in C2-style architectures

Nenad Medvidovic, Peyman Oreizy, Richard N. Taylor

May 1997

**Proceedings of the 19th international conference on Software engineering**

Full text available:  pdf(1.45 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** architectural styles, component-based development, graphical user interfaces (GUI), message-based architectures, software reuse

#### 9 Reuse of off-the-shelf components in C2-style architectures

Nenad Medvidovic, Peyman Oreizy, Richard N. Taylor

May 1997

**ACM SIGSOFT Software Engineering Notes , Proceedings of the 1997 symposium on Software reusability, Volume 22 Issue 3**

Full text available:  pdf(1.95 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)


**Keywords:** architectural styles, component-based development, graphical user interfaces, message-based architectures, software reuse

#### 10 Explaining issues in software reusability via an audio system analogy

Robert Biddle, Ewan Tempero

July 1997

**Proceedings of the 2nd Australasian conference on Computer science education**

Full text available:  pdf(813.16 KB)

Additional Information: [full citation](#), [references](#), [index terms](#)

#### 11 Compiler and tool support for debugging object protocols

Sergey Butkevich, Marco Renedo, Gerald Baumgartner, Michal Young

November 2000

**ACM SIGSOFT Software Engineering Notes , Proceedings of the 8th ACM SIGSOFT international symposium on Foundations of software engineering: twenty-first century applications, Volume 25 Issue 6**

Full text available:  pdf(1.06 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We describe an extension to the Java programming language that supports static conformance checking and dynamic debugging of object "protocols," i.e., sequencing constraints on the order in which methods may be called. Our Java protocols have a statically checkable subset embedded in richer descriptions that can be checked at run time. The statically checkable subtype conformance relation is based on Nierstrasz' proposal for regular (finite-state) process types, and is also very c ...

**Keywords:** debugging, protocols, sequencing constraints

#### 12 Multiple mass-market applications as components

David Coppit, Kevin J. Sullivan  
June 2000

**Proceedings of the 22nd international conference on Software engineering**

Full text available:  pdf(179.51 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Truly successful models for component-based software development continue to prove elusive. One of the few is the use of operating system, database and similar programs in many systems. We address three related problems in this paper. First, we lack needed models. Second, we do not know the conditions under which such models can succeed. In particular, it is unclear whether the notable success with operating systems can be replicated. Third, we do not know whether certain specific models can ...

**Keywords:** component-based software, package-oriented programming

**13 TouchCounters: designing interactive electronic labels for physical containers**

Paul Yarin, Hiroshi Ishii  
May 1999

**Proceedings of the SIGCHI conference on Human factors in computing systems: the CHI is the limit**

Full text available:  pdf(1.42 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


We present TouchCounters, an integrated system of electronic modules, physical storage containers, and shelving surfaces for the support of collaborative physical work. Through physical sensors and local displays, TouchCounters record and display usage history information upon physical storage containers, thus allowing access to this information during the performance of real-world tasks. A distributed communications network allows this data to be exchanged with a server, such that us ...

**Keywords:** distributed sensing, tangible interfaces, ubiquitous computing, visualization

**14 A proven operational CAD system for P.W.B. design-based on a mini-computer and featuring fully automatic placement and routing.**

G. L. Patterson, B. H. Phillips  
June 1976

**Proceedings of the 13th conference on Design automation**

Full text available:  pdf(425.58 KB)


Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The introduction of electronic processor controlled switching systems has led to a re-appraisal of the methods of designing printed wiring boards to cope with the sheer numbers of designs required and their increasing complexity. The Company's policy is normally to realise the equipment on double sided printed wiring boards (pwb) containing a maximum of 80 integrated circuits per board plus discrete components. (Figs. 1 and 2) PWB requirements are frequently changing as new techn ...

**15 Using the Baby-Babble-Blanket for infants with motor problems: an empirical study**

H. J. Fell, H. Delta, R. Peterson, L. J. Ferrier, Z. Mooraj, M. Valleau  
October 1994

**Proceedings of the first annual ACM conference on Assistive technologies**

Full text available:  pdf(758.52 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Children with motor problems often develop to be passive, presumably because of an inability to communicate and to control the environment. The Baby-Babble-Blanket (BBB), a pad with pressure switches linked to a Macintosh computer, was developed to meet this need. Lying on the pad, infants use head-rolling, leg-lifting and kicking to produce digitized sound. Data is collected by the BBB software on the infant's switch activations. An empirical study was carried out on a five-month-old infant ...

**16 Interface to architecture: integrating technology into the environment in the Brain Opera**

Maggie Orth  
August 1997

**Proceedings of the conference on Designing interactive systems: processes, practices, methods, and techniques**

Full text available:  pdf(1.41 MB)

Additional Information: [full citation](#), [references](#), [index terms](#)

**Keywords:** architecture, collaboration, design, environment, furniture, interface, opera, physical interface, sensor, theater

**17 Memory: part III. Reasoning and inference: The commonsense algorithm as a basis for computer models of human memory, inference, belief and contextual language comprehension**

Chuck Rieger  
June 1975

**Proceedings of the 1975 workshop on Theoretical issues in natural language processing**

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The notion of a commonsense algorithm is presented as a basic data structure for modeling human cognition. This data structure unifies many current ideas about human memory and information processing. The structure is defined by

specifying a set of proposed cognitive primitive links which, when used to build up large structures of actions, states, statechanges and tendencies, provide an adequate formalism for expressing human plans and activities, as well as general mechanisms and computer algor ...

<sup>18</sup> Session II - empirical studies: Narratives at work: story telling as cooperative diagnostic activity

Julian E. Orr  
December 1986

**Proceedings of the 1986 ACM conference on Computer-supported cooperative work**

Full text available:  pdf(698.15.KB)

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The diagnostic process for copiers involves narration of the process, including a description of the state of the machine. This follows from the fact that copiers are elaborate assemblages of relatively simple mechanisms, and the problem in diagnosis is not so much the testing of components as keeping track of the tests and making sense of their results. The anecdotal re-telling of this narrative to one's associates constitutes the mechanism for incorporating the diagnostic experience into the c ...

<sup>19</sup> Expert systems in law: out of the research laboratory and into the marketplace

R. E. Susskind  
December 1987

**Proceedings of the first international conference on Artificial intelligence and law**

Full text available:  pdf(1.01.MB)

Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

The major goal of workers in the field of expert systems in law can be summarized as follows: through the use of computer technology, to make scarce, human legal knowledge and expertise more widely available and easily accessible. This paper is directly concerned with that goal. It is divided into two parts. The first discusses a three year interdisciplinary research project in expert systems in law that involved the Law Faculty and the Programming Research Group of the University of Oxford ...

<sup>20</sup> A design analysis of a hybrid technology multithreaded architecture for petaflops scale computation<sup>3</sup>

Thomas Sterling, Larry Bergman  
May 1999

**Proceedings of the 13th international conference on Supercomputing**





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October 1997**ACM SIGPLAN Notices , Proceedings of the 12th ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications, Volume 32 Issue 10**

Full text available: pdf(3.04 MB)

Additional information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Two important problems of object-oriented reuse are the propagation of design and implementation specifics of the base software to the inheritors, and the protection of the inheritors against changes in the base software. In this paper, we argue that the simple inheritance rules of existing object-oriented languages are not sufficient for properly dealing with these problems. In the proposal presented in this paper, programmers are enabled to make metalevel declarations of the internal protocols ...

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